GL612N/GL622N /GL622IR

Applications

General Construction

- Leveling concrete forms and footers
- Vertical alignment such as wall, columns and form alignment (GL612N/GL622N)
- Dual slope grading and steep slope excavating
- Slope work for sports fields, tennis courts, driveways, parking garages, ramps

Pipe and Drainage Installations

- Over-the-Top sewer and drainage pipe installations
- Trenching and drainage

Easy-To-Use, Full Featured Automatic Grade Lasers

The Spectra Precision® GL612N single grade and GL622N/GL622IR dual grade lasers are automatic self-leveling, rugged and cost-effective. An intuitive keypad and graphic display make all grade and alignment functions easy to use and greatly reduces setup time and increases productivity. A matching remote control also simplifies all level, grade, and vertical alignment setup tasks.

Key Features

Ultimate Control of X/Y Axes

- Fully automatic up to +/-25% grade on X/Y axes
- Automatic Axis Features
  (X Axis - only GL622N/GL622IR)
  - High Precision Axis Alignment (only GL622N/GL622IR)
  - Simplified Grade Match: measures and displays the existing grade over unknown ground
  - Complete PlaneLok: automatically locks on the laser beam to an existing elevation
- Alignment range for both axes is +/-40°
- Fully automatic vertical leveling (not GL622IR)
- Fingerprint function - detects only the laser beam of the paired transmitter

Built for Today's Jobs

- Withstands a 1 m (3 ft) drop onto concrete
- Long operating range - 800 m (2.600 ft) diameter
- Long operating radio range - 150 m (490 ft)
- Intuitive keypad and graphic display
- Password secured
- Mask mode
- Various power options
- Automatic temperature compensation
- Electronic leveling vibration filter

User Benefits

- Quickly adapts to site requirements
- Simplifies level, grade and alignment setups
- Reduces time to do steep slope work and drainage installation
- Increases reliability, accuracy and durability
- Economize operating costs

SPECTRA PRECISION

GL612N/GL622N/GL622IR – Maximum Versatility for Leveling, Grading and Alignment

GL612N/GL622N/GL622IR Specifications

- Leveling accuracy[1,3]: ± 0.5 mm/10 m, 1/16“ @ 100 ft, 10 arc seconds
- Grade accuracy[1,3]: ± 1.0 mm/10 m, 1/8“ @ 100 ft, 20 arc seconds
- Grade temperature drift sensitivity: ± 0,3 mm / 10 m / 1°C; 1/16” @ 310 ft. @ 1°F
- Operating diameter[1,2:] appr. 800 m (2600 feet) with detector
- Grade range (Y, X-GL622N/GL622IR): ± 25% both axes (not simultaneously)
- Rotation: 300, 600, 750 rpm
- Laser type: 639 nm (GL622IR: typ.830 nm)
- Laser class : Class 2 (GL622IR: class 1)
- Self-leveling range: appr. ± 14°
- Leveling indicators: LCD indications and LED flashes
- Radio range (HL760)[1,2,4]: up to 150 m (490 ft)
- Power source: NiMH battery pack
- Battery life[1]: 35 hours NiMH (GL622IR: 40 hours NiMH)
- Operating temp.: -20°C to 50°C (-4°F to 122°F)
- Storage temp.: -20°C to 70°C (-4°F to 158°F)
- Tripod attachments: 5/8 x 11 horizontally and vertically
- Dust and waterproof: Yes - IP67
- Weight: 3.1 kg (6.8 lbs)
- Low voltage indication: LCD battery indicator
- Low voltage disconnection: unit shuts off
- Warranty: 5 Years

HL760 Digital Readout Receiver

- Highly versatile receiver for basic and advanced leveling and aligning applications
- Works with GL612N/GL622N/GL622IR in automatic Axis Alignment (only GL622N/GL622IR), Grade Match and PlaneLok applications
- Key Features:
  - Digital readout of elevation
  - Exact distance from grade displayed
  - Anti-strobe sensor to prevent false reading from jobsite strobe lights
  - Large reception height to ease beam reception
  - Withstands a drop of up to 3m (10ft)
  - Radio communication - works with another HL760 for long range wireless remote display and monitoring capability
  - “Fingerprint” function of the HL760 DRO receiver only accepts the beam from the laser it is paired with
- User Benefits:
  - No need to go “on-grade” to measure;
  - Saves considerable time
  - Reduces rework by allowing remote monitoring
  - Increases reliability, accuracy and durability

RC602N Remote Control Specifications

- Operating range[1,2,4]: up to 150 m (490 ft)
- Power source: 2 x 1.5V AA alkaline batteries
- Battery life[1]: 130 hours
- Dust and waterproof: Yes - IP66
- Weight: 0.26 kg (0.57 lbs)

HL760 Laserometer Specifications

- Digital readout units: mm, cm, ft, in, frac. in
- Reception height: 127 mm (5 inches)
- Six On-grade sensitivities:
  - Ultra Fine 0.5 mm (~1/32 in)
  - Super Fine 1 mm (~1/16 in)
  - Fine 2 mm (~1/8 in)
  - Medium 5 mm (~1/4 in)
  - Coarse 10 mm (~1/2 in)
  - Calibration Mode 0.1 mm (~1/64 in)
- Battery life (2 x AA): 60+ hours continuous operation
- Auto shut-off: 30 minutes/24 hours
- Operating temp.: -20°C to 50°C (-4°F to 122°F)
- Dust and waterproof: Yes - IP67
- Weight: 0.27 kg (9.5 oz)
- Warranty: 3 Years “No Excuses”

[1] at 21° Celsius (70° F)
[2] under optimal atmospheric circumstances
[3] along the axis
[4] Heigt of instruments 1m (e.g. with tripod)

RC602N Radio Remote Control for all applications

HL760 Laserometer to measure and display beam location

Contact Information:

Vectors Inc.
VectorsInc.com

Vectors Colorado - (303) 283-0343
10670 East Bethany Drive, Bldg 4
Aurora, CO 80014

Vectors New Mexico - (505) 821-3044
5640 Venice Avenue, Unit J
Albuquerque, NM 87113

NORTH AMERICA
Trimble Spectra Precision Division
5475 Kellenburger Road • Dayton, Ohio 45424 • USA
Toll Free +1-888-272-2433 • Fax +1-937-245-5489
www.spectralasers.com

EUROPE
Trimble Kaiserslautern GmbH
Am Sportplatz 5 • 67661 Kaiserslautern • Germany
Phone +49-6301-711414 • Fax +49-6301-32213

SPECTRA PRECISION

To locate your nearest distributor, please visit the Dealer Locator section at www.spectralasers.com or www.trimble.com
Specifications and descriptions are subject to change without notice. Please visit www.spectralasers.com or http://www.trimble.com/construction-tools/ for the latest product information.

SCAN THIS CODE FOR MORE INFORMATION